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class Node:

    def __init__(self, value):
        self.value = value

        self.left = None

        self.right = None


def create_sample_tree():

    root = Node(1)

    root.left = Node(2)

    root.right = Node(3)

    root.left.left = Node(4)

    root.left.right = Node(5)

    root.right.left = Node(6)

    root.right.right = Node(7)

    return root


def is_terminal_node(node):

    return not (node.left or node.right)


def evaluate_node(node):

    return node.value


def get_children(node):

    return [child for child in [node.left, node.right] if child]


def minimax(node, depth, maximizingPlayer):

    if depth == 0 or is_terminal_node(node):

        return evaluate_node(node)

    if maximizingPlayer:

        maxEval = float('-inf')

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    for child in get_children(node):
        eval_child = minimax(child, depth - 1, False)
        maxEval = max(maxEval, eval_child)
    return maxEval

else:
    minEval = float('inf')
    for child in get_children(node):
        eval_child = minimax(child, depth - 1, True)
        minEval = min(minEval, eval_child)
    return minEval

# Example usage:
sample_tree = create_sample_tree()
result = minimax(sample_tree, depth=3, maximizingPlayer=True)
print("Result:", result)
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